Lynn is baking 20 cakes. She needs blueberries, strawberries, and some other ingredients for her recipe.

- She needs 22 pounds of blueberries.
- She needs twice as many pounds of blueberries as she does strawberries.

Part A
Write an equation that can be used to determine the number of pounds of strawberries Lynn needs. Be sure to define the variable in your equation.

Define the variable _____

Equation _____

Part B
Lynn buys the blueberries for $3 per pound and the strawberries for $2 per pound.

What is the total cost of the blueberries and strawberries?

Show All Work

Answer $ _____

Part C
In addition to the cost of the berries, Lynn spends $52 on the other ingredients needed to make the 20 cakes.

Lynn wants to make $5 for each cake she sells, taking into account the amount she spends on ALL ingredients.

For how much should Lynn sell each cake in order to make $5 per cake? Use words, numbers, and/or symbols to justify your answer.

_____

_____

_____

_____

Content Standard:			
6.AF.5: Solve equations of the form x + p = q, x - p = q, px = q, and x/p = q fluently for cases in which p, q and x are all nonnegative rational numbers. Represent real world problems using equations of these forms and solve such problems.			
Process Standards: 2, 3, 4, 6			
Calculator: Yes			
Item Type: Extended-Response	Pts: 6	DOK: 3	Grade: 6

Exemplary Response:
p represents the number of pounds of strawberries Lynn needs
2*p* = 22
OR other valid equation and definition of the variable
AND
$88
AND
Lynn should sell each cake for $12.

Sample Process:
2*p* = 22
 P = 22/2
 p = 11

22 x $3 = $66
11 x $2 = $22
$66 + $22 = $88

$88 + $52 = $140
$140/20 = $7 per cake
$7 + $5 = $12
OR
Other valid process